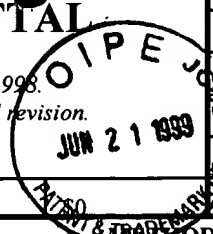


FEE TRANSMITTAL

Note: Effective October 1, 1998.
Patent fees are subject to annual revision.



Attorney Docket Number	OLIG-0004
First Named Inventor	Deric M.K. Dale et al.
COMPLETE IF KNOWN	
Application Number	09/223,957
Filing Date	December 31, 1998
Group Art Unit	1623
Examiner Name	G. Kunz

TOTAL AMOUNT OF PAYMENT

METHOD OF PAYMENT (check one)	
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees and credit any overpayments to: Deposit Account No. 50-0815. Deposit Account Name: Bozicevic, Field & Francis LLP <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 Charge the Issue Fee set in 37 CFR 1.18 at the mailing of the Notice of Allowance	2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other

FEE CALCULATION

1. FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Due
101	760	201	380	Utility filing fee	\$
102	310	206	155	Design filing fee	
104	480	207	240	Plant filing fee	
109	760	208	380	Reissue filing fee	
110	150	214	75	Provisional filing fee	
SUBTOTAL (1)					0

2. CLAIMS

No. of claims as filed or after amendment	Most claims previously paid	Extra claims	Fee from below	Fee Due
Total claims	20	20	9	\$0
Ind. claims	1	3	39	
Multiple Dependent claims		0	130	0

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	78	202	39	Independent claims in excess of 3
104	260	204	130	Multiple dependent claim
109	78	209	39	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of and over original patent

SUBTOTAL (2) \$0

3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Due
105	130	205	65	Surcharge - late filing fee or oath	
139	130	139	130	Non-English specification	
115	110	215	55	Ext. for reply within first month	
117	870	217	435	Ext. for reply within third month	
128	1,850	228	925	Ext. for reply within fifth month	
120	300	220	150	Filing brief in support of appeal	
140	110	240	55	Petition to revive - unavoidable	
142	1,210	242	605	Utility issue fee (or reissue)	
123	50	123	50	Petitions related to prov. appl.	
146	760	246	380	Filing submission after final rejection (37 CFR 1.129(a))	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
143	430	243	215	Design issue fee	
581	40	581	40	Recording patent assignment	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
147	2,520	147	2,520	Filing a request for reexamination	
116	380	216	190	Ext. for reply within second month	
118	1,360	218	680	Ext. for reply within fourth month	
119	300	219	150	Notice of Appeal	
121	260	221	130	Request for oral hearing	
141	1,210	241	605	Petition to revive - unintentional	
122	130	122	130	Petitions to the Commissioner	
126	240	126	240	Submission of IDS	
149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
144	580	244	290	Plant issue fee	
Other fee (specify)					

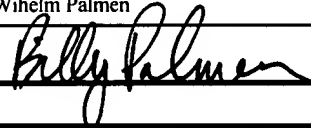
* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$0)

SUBMITTED BY


Typed or Printed Name		Dianna L. DeVore, BOZICEVIC, FIELD & FRANCIS LLP		Reg. Number		42,484	
Signature		<i>Dianna L. DeVore</i>		Date		6/17/99	
				Deposit Account		50-0815	

GP 1623

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <u>June 17, 1999</u>			
Typed or Printed Name	Wilhelm Palmen		
Signature		Date	<u>6/17/99</u>

TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>		Attorney Docket	OLIG-0004	RECEIVED JUN 28 1999 TECH CENTER 1600 2000
		First Named Inventor	Roderic M.K. Dale et al: <u>JUN 28 1999</u>	
		Application Number	09/223,957	
		Filing Date	December 31, 1998	
		Title	Method for Nucleic Acid Preparation	
		Group Art Unit	1623	
Total Number of Pages in This Submission		13	Examiner Name	G. Kunz

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an application)</i> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip and Accompanying Petition <input type="checkbox"/> To Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> Request for Refund <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) <i>(please identify below):</i> <u>Abstract from Meeting</u> <i>(reference)</i> _____ _____ _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Individual Name	Dianna L. DeVore	Registration No.	42,484
Firm Name	BOZICEVIC, FIELD & FRANCIS LLP		
Signature			
Date	<u>6/17/99</u>		



Isis Efforts in Desalting and Concentration Methodologies

Method	Desalt	Con.	Advantages	Limitations
Reverse Phase Capture	✓	✓	<ul style="list-style-type: none">• High concentrations• Good salt reductions• Used for Vitravene™	<ul style="list-style-type: none">• Expensive media and equipment• Removal of organics
Precipitation	✓	✓	<ul style="list-style-type: none">• Good method• Used for all PS oligos	<ul style="list-style-type: none">• Residual EtOH• Requires centrifugation
Gel permeation	X	✓	<ul style="list-style-type: none">• Mild technique• Scale-up possible	<ul style="list-style-type: none">• High viscosity• High salt
Membrane Filtration	✓	✓	<ul style="list-style-type: none">• Widely used• Scale-up possible	<ul style="list-style-type: none">• Low concentrations• Loss in recovery
Electro-Dialysis	✓	✓	<ul style="list-style-type: none">• More efficient than pressure driven filtration	<ul style="list-style-type: none">• No commercial scale equipment available

Table from
presentation